

Annex 25, Water and Waste Water Management

Primary Agency: Illinois Environmental Protection Agency (IEPA)

Support Agencies: Illinois Department of Natural Resources (IDNR)
Illinois Department of Public Health (IDPH)
Illinois Emergency Management Agency (IEMA)

Other Organizations: Illinois Public Works Mutual Aid Network (IPWMAN)
Illinois Water/Wastewater Agency Response Network (ILWARN)

I. Introduction

A. Purpose

1. To provide strategic and operational guidance and coordinate state technical assistance and support to Authorities Having Jurisdiction (AHJ) for the purpose of ensuring viability of potable and waste water infrastructure.

B. Scope

1. This annex addresses state-support to potable and waste water infrastructure following a natural, human-caused or technological disaster, to include:
 - a) Situational awareness of potable and waste-water infrastructure and supplies during and after a disaster and compilation and dissemination of situational reports.
 - b) Identification of the need for, issuance and monitoring of water use advisories, including boil orders.
 - c) Public works support to water supply and waste-water infrastructure, including the provision of pumps, generators, etc.
 - d) Identification of the need for, and technical support of AHJs in the provision of, bulk distribution of potable water and treatment devices.
 - e) Testing of public and private potable water infrastructure.
2. For the purposes of this annex, water and waste-water infrastructure will include treatment facilities, distribution systems and collection systems.
3. This annex does not address:

- a) Water-borne illness, found in IEOP Annex 8, Public Health and Medical Services.
- b) Hazardous material incidents affecting water and waste-water infrastructure, found in IEOP Annex 13, Oil and Hazardous Materials Response.
- c) Operational considerations for the bulk distribution of potable water and treatment devices, found in IEOP Annex 7-X3, Emergency Relief Supply Distribution.
- d) The provision of portable sanitation systems, found in IEOP Annex 8, Public Health and Medical Services.

C. Policy

1. IEPA will maintain an oversight and technical assistance role in all known situations of contamination to water and waste-water infrastructure.
2. Procedures for utilization, control and use of state activated resources will incorporate and/or consider operational priorities that include, but are not limited to the protection of life, public health and safety, property protection, environmental protection, restoration of essential utilities, restoration of essential program functions and coordination as appropriate.
3. To the extent possible, implementation of prevention, protection, response and recovery processes will be consistent with federal and industry guidance.
4. Implementation of this annex will not supersede federal laws, rules and regulations.

D. Situation Overview

1. A disaster has occurred resulting in the disruption of water and waste-water infrastructure.

E. Assumptions

1. Local Authorities Having Jurisdiction (AHJ) or private sector entities are contacting IEMA, IEPA or IDPH for state support and/or restoration of water and waste-water infrastructure.
2. Sampling, monitoring, inspection and laboratory analysis of water and waste-water infrastructure is required.
3. Disruption of water and waste-water infrastructure will result in distribution of contaminated water.

4. Mutual aid resources will be available.
5. Individuals are contacting AHJ for support and/or restoration of water and waste-water infrastructure.
6. Disruption of privately held and/or individually owned water infrastructure will be affected without the knowledge of the state.
7. Disruption of water and waste-water infrastructure will result in the need for coordinated mass care operations.
8. Bypass of sanitary treatment facilities will occur.
9. Disruptions to water and waste-water infrastructure will require evaluation and monitoring to determine:
 - a) effects on public and private water supplies;
 - b) effects on the environment; and
 - c) necessity of bulk distribution of potable water

II. Concept of Operations

A. General

1. State agencies will assess the hazards or potential hazards according to their capabilities, expertise and authorities and share the results of such assessments with the SEOC.
2. The SEOC will coordinate integration of state agencies, private sector resources, non-governmental organizations into water and waste-water management operations.
3. When local and private sector resources are capable of coordinating and managing restoration efforts, the SEOC will identify the need for and provide state technical assistance and laboratory analysis.
4. The declaration of a boil order is the responsibility of the local AHJ.
5. When private sector resources are able to respond to a disruption of water and waste-water infrastructure, the state will provide technical support to infrastructure operators.
6. Verification that a disruption to water and waste-water infrastructure is resolved will be required prior to a return to full or incremental operations.

B. Notification, Alert and Warning (NAW)

1. SEOC notification, alert and warning of SEOC liaisons will be handled in accordance with IEOP Annex 2, Communication, App-X1 Notification.
 2. Primary and support agencies are responsible for internal and support partner notification.
 3. For facilities regulated by the state, notifications will be carried out in accordance with local, state and federal laws, rules, regulations, policies and procedures.
 4. Primary and support agency SEOC liaisons will identify situations affecting water and waste-water infrastructure.
- C. Activation
1. SEOC Activation Level SOP will be used to determine staffing levels necessary for response and recovery to water and waste-water infrastructure disruption.
- D. Communications
1. Communications throughout response and recovery will be conducted in accordance with standard operating procedures and managed using established procedures, processes and policies outlined in IEOP, Annex 3, Communications.
 2. Communications will be conducted in a National Incident Management System compliant manner utilizing cleartext and frequencies coordinated with the SEOC.
- E. Resource Management and Logistics
1. Resource management and logistics will be carried out in accordance with IEOP, Annex 9 Resource Management and Logistics.
 2. Resource management includes mutual aid agreements and assistance agreements, the use of special federal and state teams, and resource mobilization protocols.
- F. Reporting Requirements
1. Information, intelligence and situation reporting and will be conducted in accordance with the SEOC Situation and Rapid Needs Assessment Standard Operating Guideline.
 2. Reporting requirements will be coordinated and managed through each agency having enabling authority in accordance with state and federal laws, rules, regulations, policies and procedures.

3. Reporting requirements will be compliant with the Illinois Administrative Code.

G. Implementation Requirements

1. Coordination and sustainment requirements for state support to disruptions of water and waste-water infrastructure must be fully addressed prior to implementation.

H. Organization

1. Direction and Control

- a) State agencies and external organizations retain operational control of water and waste-water operational resources.
- b) The governor, or designee, has the authority to exercise overall coordination of resources belonging to the state.
- c) The SEOC is the single point of coordination for state support of water and waste-water operations.
- d) The SEOC manager, or designee, may coordinate the use of county or local jurisdiction resources assigned missions and tasking for water and waste-water operations when so authorized or requested.
- e) The SEOC manager, or designees, will coordinate with local, state, federal and private organizations in developing water and waste-water operations plans and processes.
- f) For the purpose of unity of command, coordination and management of the SEOC, the SEOC manager will transfer command to the state disaster recovery coordinator at the cessation of short-term recovery and continuation of intermediate and long-term recovery efforts.

2. Coordinating Elements

- a) State Unified Area Command (SUAC) or State Area Command (SAC) elements may be deployed by the SEOC to coordinate information and resource requirements for operations.
- b) Coordination between private sector organizations and the state will be maintained through the SEOC and the Business Emergency Operations Center (BEOC).
- c) The SEOC Private Sector LNO will coordinate the inclusion of Illinois Water/Waste-water Agency Response Network resources and disaster intelligence into state water and waste-water operations.

3. Federal Coordination

- a) Under a presidential declaration of a major disaster, IEMA will coordinate the inclusion of federal assets into the state's damage assessment operations.
- b) Federal agencies may investigate or initiate a response to a water and waste-water incident without a state request or state concurrence.
 - 1) The federal on-scene coordinator (OSC) becomes the principal point of contact for the federal response and is invested with specific authorities and responsibilities defined in law.
 - 2) The federal OSC does not have to be actually on-scene in order to exercise those authorities or act on those responsibilities.
- c) State agencies may maintain an on-scene presence during a federalized response to assist the federal responder(s), to provide a liaison function for state-managed activities or to represent the state's interests.
- d) Requests for federal assistance will be initiated under the authority of the National Contingency Plan and in accordance with the following:
 - 1) The Integrated Regional Contingency Plan for certain oil spills and for hazardous substances; and
 - 2) The Area Contingency Plan for spills of oil to surface waters.
- e) SEOC LNOs, state agencies, boards and commissions will coordinate with federal counterparts in accordance with enabling authority.

III. Roles and Responsibilities

A. Illinois Environmental Protection Agency (IEPA)

- 1. Provide technical assistance on operational capabilities and assessing damage to public water supply systems and waste-water treatment facilities.
- 2. Provide technical assistance in assessing and evaluating threats to public health, public welfare and the environment resulting from damage or loss of critical infrastructure pertaining to:
 - a) public and privately-owned water supply systems;

- b) publicly and privately-owned sewage treatment systems; and
 - c) threats of effects on surface and ground waters.
 - 3. Identify the need for and coordinate the inclusion of specialized capabilities available through the SEOC as appropriate.
 - 4. Coordinate laboratory testing to determine conventional pollutants, drinking water contaminants and hazardous substances.
 - 5. Provide situational awareness on the condition of affected public and privately-owned water supply systems and sewage systems.
 - 6. Coordinate and provide public information, crisis communications and rumor control with the SEOC.
- B. Illinois Department of Natural Resources (IDNR)
 - 1. Provides resources to conduct law enforcement patrols, damage assessment of water control structures and other emergency protective measures.
 - 2. Provide technical assistance on dams and other water control structures.
- C. Illinois Department of Public Health (IDPH)
 - 1. Provide technical assistance and guidance on sample collection and testing of water for bacterial contaminants.
 - 2. Provide technical assistance on sampling of non-community public water supplies and other IDPH regulated facilities.
 - 3. Provide technical assistance and guidance on treatment and processes for emergency hauling, handling or disinfection of drinking water.
 - 4. Provide environmental health technical assistance and support including, but not limited to, the following:
 - a) limited environmental monitoring and sampling;
 - b) health-based interpretation of environmental data; and
 - c) guidance on preventing or reducing exposures.
 - 5. Coordinate and provide public information, crisis communications and rumor control with the SEOC.
- D. Illinois Emergency Management Agency (IEMA)

1. Coordinate with county emergency management agency officials, affected local governments and private sector organizations for the collection, receipt, analysis and dissemination of situational awareness and disaster intelligence information.
 2. Assist in determining impacts resulting from damage or loss of critical infrastructure.
 3. Develop and maintain maps, visual aids and displays.
 4. Coordinate and provide public information, crisis communications and rumor control.
 5. Coordinate the inclusion of mutual-aid resources required for water and waste-water response and recovery in coordination with IEPA.
- E. Illinois Public Works Mutual Aid Network (IPWMAN)
1. Coordinate directly with public and private utilities through existing mutual aid agreements.
 2. Provide resources to supplement water and waste-water operations throughout response and short, intermediate and long-term recovery.
 3. Provide information on resource availability and resources deployed as requested.
- F. Illinois Water/Wastewater Agency Response Network (ILWARN)
1. Coordinate directly with public and private utilities through existing mutual aid agreements.
 2. Provide resources to supplement water and waste-water operations throughout response and short, intermediate and long-term recovery.
 3. Coordinate mutual aid operations with the SEOC through the SEOC Private Sector LNO.
 4. Provide information on resource availability and resources deployed as requested.
 5. Maintain situational awareness of water and waste-water operation through the BEOC.

IV. Authorities and References

A. Authorities

1. Environmental Toxicology Act (P.A. 84-987) 415 ILCS 75/1 et seq., as amended

2. 29 IL. Adm. Code 620, as amended
3. 77 IL. Adm. Code 900, as amended

B. References

1. Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended, 42 U.S.C. § 5121 et seq.
2. National Response Framework (NRF), as amended.
3. National Disaster Recovery Framework (NDRF), as amended.